

WHAT IS CLAIMED IS:

1. A solid-state image sensing apparatus, comprising:
a solid-state image sensing device outputting an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured for outputting a first signal converted linearly to the intensity of the incident light and a second signal converted natural-logarithmically to the intensity of the incident light;

a first signal processing circuit supplied with the first signal from the solid-state image sensing apparatus and performing a predetermined signal processing; and

a second signal processing circuit supplied with the second signal from the solid-state image sensing apparatus and performing a predetermined signal processing.

2. A solid-state image sensing apparatus having a solid-state image sensing device that outputs an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured for outputting a first signal converted linearly to the intensity of the incident light and a second signal converted natural-

logarithmically to the intensity of the incident light,
comprising:

a first signal processing circuit supplied with the
first signal from the solid-state image sensing apparatus and
performing a predetermined signal processing;

a second signal processing circuit supplied with the
second signal from the solid-state image sensing apparatus
and performing a predetermined signal processing;

a logarithmic/linear conversion circuit converting a
signal output from the second signal processing circuit to a
signal linearly proportional to the intensity of the incident
light; and

a third signal processing circuit supplied with a
signal from the first signal processing circuit and a signal
from the logarithmic/linear conversion circuit.

3. The solid-state image sensing apparatus as claimed
in claim 2, wherein

a plurality of color filters are provided in the solid-
state image sensing device, and the first signal and the
second signal output from the solid-state image sensing

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apparatus each comprise a plurality of color signals,

the first signal processing circuit performs white balance adjustment of the first signal, and

the second signal processing circuit performs white balance adjustment of the second signal.

4. The solid-state image sensing apparatus as claimed in claim 2, wherein the first signal processing circuit performs gamma correction of the first signal, and the second signal processing circuit performs gamma correction of the second signal.

5. The solid-state image sensing apparatus as claimed in claim 2, wherein a dynamic range of the second signal is adjusted at the second signal processing circuit.

6. A solid-state image sensing apparatus, comprising:
a solid-state image sensing device outputting an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured for outputting a first signal converted linearly to the intensity

of the incident light and a second signal converted natural-logarithmically to the intensity of the incident light;

a signal processing circuit supplied with the first signal and a signal from the logarithmic/linear conversion circuit.

the signal processing circuit performs white balance adjustment of the supplied signals.

9. A solid-state image sensing apparatus having a solid-state image sensing device that outputs an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured for outputting a first signal converted linearly to the intensity of the incident light and a second signal converted natural-logarithmically to the intensity of the incident light, comprising:

a first signal processing circuit supplied with the second signal from the solid-state image sensing apparatus and performing a predetermined signal processing;

a linear/logarithmic conversion circuit converting the first signal to a signal natural-logarithmically proportional to the intensity of the incident light; and

a second signal processing circuit supplied with a signal from the first signal processing circuit and a signal from the linear/logarithmic conversion circuit.

10. The solid-state image sensing apparatus as claimed in claim 9, wherein a plurality of color filters are provided

in the solid-state image sensing device, and the first signal and the second signal output from the solid-state image sensing apparatus each comprise a plurality of color signals, and

the second signal processing circuit performs white balance adjustment of the supplied signals.

11. The solid-state image sensing apparatus as claimed in claim 9, wherein the second signal processing circuit performs gamma correction of the supplied signals.

12. The solid-state image sensing apparatus as claimed in claim 9, wherein a dynamic range of the second signal is adjusted at the first signal processing circuit.

13. A solid-state image sensing apparatus, comprising:
a solid-state image sensing device outputting an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured for outputting a first signal converted linearly to the intensity of the incident light and a second signal converted natural-

logarithmically to the intensity of the incident light,

a linear/logarithmic conversion circuit converting the first signal to a signal natural-logarithmically proportional to the intensity of the incident light; and

a signal processing circuit supplied with the second signal and a signal from the linear/logarithmic conversion circuit.

14. A solid-state image sensing apparatus having a solid-state image sensing device that outputs an electrical signal proportional to an intensity of incident light, the solid-state image sensing device configured outputting a first signal converted linearly to the intensity of the incident light and a second signal converted natural-logarithmically to the intensity of the incident light, comprising:

a first signal processing circuit supplied with the first signal from the solid-state image sensing apparatus and performing a predetermined signal processing;

a second signal processing circuit supplied with the second signal from the solid-state image sensing apparatus

and performing a predetermined signal processing;

a linear/logarithmic conversion circuit converting a signal output from the first signal processing circuit to a signal natural-logarithmically proportional to the intensity of the incident light; and

a third signal processing circuit supplied with a signal from the second signal processing circuit and a signal from the linear/logarithmic conversion circuit.

15. A solid-state image sensing apparatus as claimed in claim 14, wherein

a plurality of color filters are provided in the solid-state image sensing device, and the first signal and the second signal output from the solid-state image sensing apparatus each comprise a plurality of color signals,

the first signal processing circuit performs white balance adjustment of the first signal, and

the second signal processing circuit performs white balance adjustment of the second signal.

16. The solid-state image sensing apparatus as claimed

in claim 14, wherein the first signal processing circuit performs gamma correction of the first signal, and the second signal processing circuit performs gamma correction of the second signal.

17. A solid-state image sensing apparatus as claimed in claim 14, wherein a dynamic range of the second signal is adjusted at the second signal processing circuit.

18. An image sensing apparatus, comprising:

a solid-state image sensing device controlled to output a first signal and a second signal linearly and logarithmically proportional to an intensity of incident light; and

a signal processing circuit receiving the first and second signals, the signal processing circuit processing a first signal and a second signal using a first predetermined signal processing and a second predetermined signal processing, respectively.

19. The image sensing apparatus of claim 18, the

signal processing circuit further comprising:

a first signal processing circuit receiving the first signal from the solid-state image sensing device and performing at least a portion of the first predetermined signal processing; and

a second signal processing circuit receiving the second signal from the solid-state image sensing device and performing at least a portion of the second predetermined signal processing.

20. The image sensing apparatus of claim 19, the signal processing circuit further comprising:

a third signal processing circuit receiving the first and second signals processed by the first and second signal processing circuits, respectively, and performing at least a portion of the first and second predetermined signal processing on the first and second signals, respectively.

21. The image sensing apparatus of claim 19, wherein said first signal processing circuit includes a linear/logarithmic conversion circuit, and wherein said

second signal processing circuit receives the first signal processed by the first signal processing circuit.

22. The image sensing apparatus of claim 19, wherein said second signal processing circuit includes a logarithmic/linear conversion circuit, and wherein said first signal processing circuit receives the second signal processed by the second signal processing circuit.

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